

ozone therapy for breast cancer

Ozone Therapy for Breast Cancer: Exploring an Emerging Complementary Approach

ozone therapy for breast cancer has been gaining attention as a potential complementary treatment that could support conventional cancer therapies. While traditional approaches like surgery, chemotherapy, radiation, and hormone therapy remain the cornerstones of breast cancer management, many patients and healthcare providers are curious about the role ozone therapy might play in enhancing treatment outcomes or alleviating side effects. In this article, we'll delve into what ozone therapy involves, how it could interact with breast cancer treatment, and what current research suggests about its benefits and limitations.

Understanding Ozone Therapy and Its Mechanism

Ozone therapy involves the administration of ozone gas—a molecule composed of three oxygen atoms (O₃)—into the body to stimulate healing and improve oxygen metabolism. Although ozone is commonly known as a pollutant in the atmosphere, medical-grade ozone has been used for decades in various countries as a therapeutic agent.

The primary mechanism behind ozone therapy is its ability to increase oxygen levels in tissues and modulate oxidative stress. By introducing controlled amounts of ozone, the therapy encourages the body to produce antioxidants and activate the immune system. This improved oxygenation and immune response could potentially help the body fight cancer cells more effectively.

How Ozone Therapy is Administered

There are several methods for delivering ozone therapy, including:

- **Autohemotherapy:** The patient's blood is drawn, treated with ozone gas, and then reinfused.
- **Insufflation:** Ozone gas is introduced into body cavities such as the rectum or vagina.
- **Ozonated oils or water:** Topical applications for localized treatment.
- **Injection:** Directly into tissues or joints in some cases.

For breast cancer patients, systemic methods like autohemotherapy or insufflation are more commonly considered due to their widespread effects on the immune system and overall metabolism.

The Potential Role of Ozone Therapy in Breast Cancer Care

Cancer treatment is complex, and the potential role of ozone therapy often centers around its ability to support the body during intensive treatments rather than acting as a standalone cure. Here are some ways ozone therapy might be relevant in the context of breast cancer:

1. Enhancing Oxygenation in Tumor Tissues

One of the challenges in treating tumors is their hypoxic environment—low oxygen levels within the tumor mass—which can make cancer cells more resistant to treatments like radiation therapy. Ozone therapy's oxygen-enhancing properties may help improve oxygenation in cancerous tissues, potentially increasing the effectiveness of radiation and chemotherapy.

2. Immune System Modulation

Ozone has been shown to stimulate the immune system by increasing the production of cytokines and activating white blood cells. Since the immune system plays a crucial role in identifying and destroying cancer cells, ozone therapy could theoretically assist in boosting the body's natural defenses.

3. Reduction of Side Effects from Conventional Treatments

Breast cancer treatments, particularly chemotherapy, often come with debilitating side effects such as fatigue, nausea, and immunosuppression. Some patients have reported that ozone therapy helps alleviate these symptoms, possibly by improving oxygen delivery and enhancing antioxidant defenses, thereby reducing oxidative damage caused by chemotherapy drugs.

4. Detoxification and Improved Metabolism

Ozone therapy is believed to aid in detoxifying the body by breaking down toxins and improving liver function. For breast cancer patients undergoing multiple rounds of treatment, supporting metabolic function can be beneficial for overall health and recovery.

What Does the Research Say?

While ozone therapy has been used in various medical contexts, its application specifically for breast cancer remains under investigation. Most of the current evidence comes from preclinical studies, small clinical trials, or anecdotal reports.

Studies on Ozone Therapy and Cancer Cells

Laboratory studies have demonstrated that ozone can induce oxidative stress in cancer cells, leading to cell death. However, these effects are highly dose-dependent and must be carefully controlled to avoid damaging healthy cells. Some in vitro studies suggest that ozone therapy might inhibit tumor growth or sensitize cancer cells to chemotherapy agents.

Clinical Trials and Patient Outcomes

Human studies are limited but promising. A few small-scale clinical trials have reported improvements in quality of life and reduced chemotherapy side effects among cancer patients receiving ozone therapy as an adjunct treatment. However, large randomized controlled trials are still needed to confirm these benefits and establish safety protocols.

Safety Considerations and Risks

Ozone therapy is generally considered safe when administered correctly by trained professionals. However, inhaling ozone can be harmful to lung tissue, so ozone gas is never administered directly into the lungs. Potential side effects may include mild irritation, discomfort at injection sites, or oxidative stress if overdosed.

Patients interested in ozone therapy for breast cancer should consult their oncologists and seek treatment from reputable practitioners experienced in ozone therapy to minimize risks.

Integrating Ozone Therapy with Conventional Breast Cancer Treatments

Given the complexity of breast cancer care, ozone therapy is best viewed as a complementary approach rather than a replacement for standard treatments. Here are some practical tips for patients considering ozone therapy:

- **Discuss with your oncology team:** Always inform your doctors about any

complementary therapies you are exploring to avoid potential interactions or contraindications.

- **Choose certified providers:** Ozone therapy requires specialized equipment and expertise—ensure your provider is qualified and follows medical standards.
- **Monitor your response:** Keep track of any changes in symptoms or side effects and communicate them with your healthcare team.
- **Maintain a holistic approach:** Combining ozone therapy with nutrition, exercise, and mental health support can enhance overall well-being during treatment.

Final Thoughts on Ozone Therapy for Breast Cancer

Ozone therapy for breast cancer represents an intriguing area of complementary medicine with potential benefits related to oxygenation, immune support, and symptom relief. While it is not a substitute for proven medical treatments, ongoing research and patient experiences suggest it may serve as a valuable adjunct in comprehensive cancer care. As with any emerging therapy, informed decisions, professional guidance, and cautious optimism are key to safely exploring ozone therapy's role in the fight against breast cancer.

Frequently Asked Questions

What is ozone therapy for breast cancer?

Ozone therapy for breast cancer involves using ozone gas to improve oxygenation and potentially enhance the body's immune response to help in the treatment of breast cancer. It is considered a complementary therapy rather than a primary treatment.

How does ozone therapy work in treating breast cancer?

Ozone therapy works by introducing ozone gas into the body, which can increase oxygen levels in tissues, stimulate the immune system, and improve circulation. These effects may help inhibit cancer cell growth and support conventional treatments.

Is ozone therapy a proven treatment for breast cancer?

Currently, ozone therapy is not a proven or standard treatment for breast cancer. Most evidence is preliminary or anecdotal, and it should not replace conventional treatments like surgery, chemotherapy, or radiation.

Can ozone therapy be used alongside conventional breast cancer treatments?

Some patients use ozone therapy as a complementary approach alongside conventional treatments. However, it is essential to consult with an oncologist before combining therapies to avoid potential interactions or side effects.

What are the potential benefits of ozone therapy for breast cancer patients?

Potential benefits may include improved oxygen delivery to tissues, enhanced immune function, reduced side effects from chemotherapy or radiation, and better overall well-being. However, more research is needed to confirm these effects.

Are there risks associated with ozone therapy for breast cancer?

Yes, ozone therapy can have risks such as irritation, inflammation, or oxidative damage if not administered properly. It should only be performed by trained professionals under medical supervision.

How is ozone therapy administered for breast cancer patients?

Ozone therapy can be administered through various methods, including autohemotherapy (mixing blood with ozone and reinfusing it), ozone insufflation, or topical application. The method depends on the patient's condition and practitioner's protocol.

What does current research say about the effectiveness of ozone therapy in breast cancer?

Current research is limited and inconclusive regarding the effectiveness of ozone therapy for breast cancer. Most studies are small-scale or preclinical, and more rigorous clinical trials are needed.

Can ozone therapy help reduce side effects of breast cancer treatments?

Some studies suggest ozone therapy may help mitigate side effects like fatigue, inflammation, and tissue damage caused by chemotherapy or radiation, but more scientific evidence is required to validate these claims.

Where can breast cancer patients find safe ozone therapy treatments?

Patients should seek ozone therapy only at licensed medical facilities with experienced

practitioners. It is crucial to discuss ozone therapy options with oncologists to ensure safety and compatibility with ongoing treatments.

Additional Resources

Ozone Therapy for Breast Cancer: An Investigative Review

Ozone therapy for breast cancer is gaining attention as an alternative or complementary treatment modality, sparking both curiosity and skepticism within the medical community. As breast cancer remains one of the most prevalent malignancies affecting women worldwide, the exploration of innovative therapies beyond conventional surgery, chemotherapy, radiation, and hormone treatments is ongoing. Ozone therapy, which involves administering ozone gas to purportedly enhance oxygen delivery and stimulate immune responses, has been proposed as a potential adjunctive treatment. However, its efficacy, safety, and mechanisms of action in the context of breast cancer warrant thorough examination.

Understanding Ozone Therapy and Its Mechanisms

Ozone (O₃) is a triatomic molecule known primarily for its role in atmospheric chemistry and as a disinfectant. In medical applications, ozone therapy typically involves the controlled introduction of ozone into the body through various routes such as autohemotherapy (mixing ozone with a patient's blood and reinfusing it), insufflation, or topical application. The therapy is based on the premise that ozone can increase tissue oxygenation, modulate oxidative stress, and activate immune pathways.

In oncology, proponents suggest that ozone therapy might enhance the sensitivity of tumor cells to conventional treatments by altering the tumor microenvironment, reducing hypoxia (a low-oxygen condition common in solid tumors), and promoting apoptosis (programmed cell death). Some experimental studies have indicated that ozone can generate reactive oxygen species (ROS) that may damage cancer cells selectively, though this remains controversial.

Current Evidence on Ozone Therapy for Breast Cancer

Despite anecdotal reports and a handful of preclinical studies, robust clinical evidence supporting ozone therapy as an effective treatment for breast cancer is limited. Most existing research is confined to in vitro (cell culture) or animal models, where ozone's oxidative properties have shown some capacity to inhibit tumor growth or improve oxygenation.

For example, certain laboratory experiments have demonstrated that ozone exposure can induce oxidative stress in breast cancer cell lines, potentially triggering cell death pathways. However, these findings do not easily translate into clinical practice due to the

complexity of human tumors and the risk of damaging healthy tissues.

Clinical trials investigating ozone therapy specifically for breast cancer patients are sparse, and those available tend to have small sample sizes or methodological limitations. Some studies have explored ozone as an adjunct to chemotherapy or radiotherapy, hypothesizing that improved oxygenation could enhance treatment efficacy. While initial results are promising in terms of symptom relief, reduction of side effects, or improved quality of life, definitive conclusions about survival benefits are lacking.

Routes of Administration and Protocols

Ozone therapy for breast cancer may be administered via different methods, each with distinct implications:

- **Major Autohemotherapy (MAH):** Blood is withdrawn from the patient, mixed with ozone, and then reinfused. This method is believed to stimulate systemic immune responses.
- **Rectal Insufflation:** Ozone gas is introduced into the rectum, thought to be absorbed and distributed systemically.
- **Topical Application:** Used mainly for wound healing in post-surgical patients, potentially aiding recovery.
- **Intra-tumoral Injection:** Rare and experimental, involving direct ozone administration into the tumor mass.

Each approach carries different risks and benefits. Autohemotherapy is generally considered safer, while direct tumor injections involve greater risk and have not been widely studied.

Pros and Cons of Ozone Therapy in Breast Cancer Treatment

When evaluating ozone therapy for breast cancer, it is essential to weigh both potential advantages and disadvantages.

Potential Benefits

- **Immune System Modulation:** Ozone may activate immune cells, potentially enhancing the body's natural defenses against cancer cells.

- **Improved Oxygenation:** By increasing oxygen levels in tissues, ozone could reduce tumor hypoxia, which is associated with resistance to chemotherapy and radiation.
- **Symptom Management:** Some patients report reduced fatigue, pain, or inflammation during adjunctive ozone therapy.
- **Wound Healing:** Ozone's antimicrobial properties may aid in healing surgical wounds or radiation-induced skin damage.

Limitations and Risks

- **Lack of Strong Clinical Evidence:** There is insufficient high-quality data demonstrating that ozone therapy improves breast cancer survival or remission rates.
- **Potential Toxicity:** Ozone is a potent oxidant; inappropriate dosing could damage healthy tissues, cause oxidative stress, or lead to adverse effects such as pulmonary irritation.
- **Regulatory Concerns:** Ozone therapy is not widely approved by major health agencies as a cancer treatment and is considered experimental.
- **Possible Interference with Conventional Treatments:** Without proper medical supervision, ozone therapy could complicate or interfere with standard chemotherapy or radiation protocols.

The Role of Complementary and Integrative Oncology

In recent years, integrative oncology has sought to combine conventional cancer treatments with complementary therapies that improve patient well-being and treatment tolerance. Within this context, ozone therapy for breast cancer is sometimes offered as part of supportive care rather than as a primary cancer treatment.

Oncologists and integrative medicine practitioners emphasize that any use of ozone therapy should be evidence-informed, carefully monitored, and discussed openly with patients. It is generally recommended that ozone therapy not replace standard-of-care treatments but rather serve as a possible adjunct to alleviate symptoms or enhance quality of life.

Patient Experience and Clinical Perspectives

Some breast cancer patients report subjective improvements in energy levels, pain management, or emotional well-being while undergoing ozone therapy. These anecdotal experiences contribute to its popularity in certain alternative medicine circles.

However, oncologists caution that placebo effects and the natural variability of cancer symptoms can influence these perceptions. Without rigorous clinical trials, it remains difficult to attribute benefits directly to ozone therapy.

Future Directions and Research Needs

To clarify the potential role of ozone therapy in breast cancer treatment, further scientific investigation is essential. Priority areas include:

1. Conducting well-designed randomized controlled trials (RCTs) to assess efficacy and safety.
2. Elucidating the molecular mechanisms by which ozone interacts with cancer cells and the immune system.
3. Determining optimal dosing regimens and routes of administration to maximize benefits and minimize risks.
4. Exploring combinational strategies with chemotherapy, immunotherapy, and radiation.
5. Investigating patient-reported outcomes such as quality of life and symptom relief in larger cohorts.

Until such data emerge, ozone therapy for breast cancer should be regarded as experimental, and patients should consult with their oncology teams before pursuing it.

The exploration of ozone therapy for breast cancer reflects broader efforts to innovate cancer care by integrating novel approaches. While its theoretical benefits are intriguing, current evidence remains insufficient to endorse it as a standard treatment. Responsible use involves a balanced consideration of scientific data, patient preferences, and clinical judgment, ensuring that therapeutic decisions prioritize safety and efficacy above all.

Ozone Therapy For Breast Cancer

ozone therapy for breast cancer: *Breast Cancer* Kara Lee Schoonover, 2001-02-20 Breast Cancer: Death Call or Enlightenment examines the important role fear plays in the initial decisions made when a woman is first confronted with a potential cancer diagnosis. The most intelligent and rational health care decision possible is one that is researched and planned in advance of the cancer diagnosis. Many women are not aware that they have choices of treatments other than breast mastectomy, radiation, and chemotherapy. As the author searched for an alternative cure for cancer, she learned that finding a cure was not the answer she needed-she needed to find healing. She found that healing involved identifying and treating her spiritual imbalances. It is the author's desire that by sharing her experiences, others will gain knowledge, courage, and determination to win their battle with cancer.

ozone therapy for breast cancer: Cancer Strategy: Worldwide Solutions to a Worldwide Problem Patrick Bishop, 2025-04-10 Cancer Strategy - Critical Thinking by Patrick Bishop is a comprehensive, empowering guide to navigating the complex world of cancer care, blending scientific insight with holistic and integrative approaches. Spanning over 400 pages, the book targets patients, caregivers, and practitioners, offering a roadmap to understand cancer biology, evaluate treatment options, and adopt preventive strategies for improved outcomes. Bishop, a serial entrepreneur and cancer researcher driven by personal losses—his grandfather, father, and brother all succumbed to cancer—infuses the text with 19 years of research and a heartfelt call for thoughtful decision-making. The book opens with a prologue on the biology of belief, where Bishop explores how faith and positive thinking influence health, rooted in his Christian convictions. This sets the tone for a mind-body-spirit approach, suggesting that mental and spiritual resilience can complement physical healing. The introduction frames cancer as both a medical and personal journey, advocating for a balanced strategy that integrates conventional treatments like chemotherapy and surgery with non-toxic alternatives such as acupuncture, Gerson Therapy, and detoxification. Key sections delve into cancer's biological underpinnings, explaining the immune system's role in fighting malignant cells, the multistage process of carcinogenesis (initiation, promotion, progression), and the significance of early detection through screenings like mammograms and colonoscopies. Bishop highlights preventive lifestyle factors—diet (e.g., ketogenic, plant-based), exercise, sleep, and stress reduction—while introducing the unique oral-systemic connection, linking dental health issues like root canals to cancer risk via chronic inflammation. A central feature is an extensive treatment catalog, detailing over 50 therapies with their toxicity levels (low, moderate, high) and FDA approval status as of December 2024. Conventional options (e.g., radiation, immunotherapy) sit alongside integrative methods (e.g., hyperbaric oxygen, Ayurveda), each evaluated for benefits and limitations to aid informed choices. Bishop emphasizes personalized medicine, spotlighting genetic testing and targeted therapies to tailor care to individual needs. The book also tackles practical and ethical challenges: building a multidisciplinary care team (oncologists, naturopaths, caregivers), addressing financial toxicity—the hidden cost burden of treatment—and navigating survivorship, palliative, and end-of-life care. A critique of the pharmaceutical-driven healthcare system argues for a shift from profit-focused drug dependency to prevention-focused wellness. Looking forward, Bishop explores emerging technologies like liquid biopsies, AI diagnostics, and gene editing, blending them with holistic practices to envision a future of patient-centered cancer care. Ultimately, Cancer Strategy - Critical Thinking empowers readers with knowledge, hope, and resilience, urging a proactive, integrative approach to conquer cancer's challenges.

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medicine as well as modern techniques, she answers questions such as: Are there steps to take to conquer cancer? What can you do to promote longevity and boost energy? How can cancer patients avoid a weakened emotional state that can cause the immune system to crash? The author also shares cancer statistics, examines the causes of cancer, reveals what foods to avoid, and explores the significance of balancing your body's pH level. Whether you're suffering from cancer, want to help a loved one battling the disease, or simply want a blueprint on how to live a long life, you'll find this how-to guide an essential resource to healthy living.

ozone therapy for breast cancer: The Healing Power of Oxygen Therapies Pasquale De Marco, 2025-04-30 Immerse yourself in the transformative power of oxygen therapies with this comprehensive guide that unveils their profound impact on human health. Discover the remarkable properties of hydrogen peroxide, ozone, colloidal silver, and other oxygen-based treatments, and learn how to harness their healing benefits for a wide range of ailments. Within these pages, you will embark on a journey of discovery, exploring the science behind oxygen therapies and their vielfältig applications. From the well-known antiseptic properties of hydrogen peroxide to the cutting-edge use of ozone in treating chronic conditions, this book provides a thorough examination of each therapy. Uncover the fascinating history of colloidal silver, an ancient antimicrobial with remarkable healing abilities, and delve into the emerging research on oxygenated water, structured water, and hyperbaric oxygen therapy. Each chapter offers practical insights and real-world examples, empowering you to make informed decisions about incorporating oxygen therapies into your health regimen. Whether you are a healthcare professional seeking to expand your knowledge or an individual seeking natural remedies for your health concerns, this book is an invaluable resource. With its accessible language and wealth of practical information, this guide empowers you to take control of your health and unlock the transformative power of oxygen therapies. Join us on an enlightening journey as we explore the myriad benefits of oxygen therapies and their potential to revolutionize your health and well-being. If you like this book, write a review on google books!

ozone therapy for breast cancer: No More Cancer Gary Null, 2014-07-29 One word strikes more fear into a person's mind than any other: CANCER. The physical, mental, emotional, and financial toll that comes with a cancer diagnosis is immense and affects not only cancer patients but also families and entire communities. This year alone approximately 600,000 Americans will lose their lives to cancer, and the forecast shows no signs of improving. Recent estimates tell us that 41 percent of all Americans will be diagnosed with cancer during their lifetimes and 21 percent of the population will lose their lives to this devastating disease. Cancer has evolved into a national crisis that touches each and every one of us. The vast majority of individuals who lose the battle against cancer are treated with the standard orthodox therapy. These people may never have questioned their oncologists, believing that they were in the best possible hands with their physicians' advanced education, knowledge of latest treatments, and all the tools of modern research at their disposal. In this groundbreaking book, Gary Null debunks the commonly accepted belief that drugs and chemotherapy are the only cures for cancer and explores the alternative treatments that most mainstream doctors will never discuss with their patients. Dr. Null asserts that there are foods and supplements that boost the body's immune system and can actually prevent and reverse cancer. Did you know that eating lemons and melons can help balance your body's pH, which will help prevent and treat cancer? You knew that fiber is important for a healthy diet, but did you know that it lowers the risk of breast, colorectal, uterine, and prostate cancers? Have you heard of maitake mushrooms, which kill cancer cells by enhancing the activity of T-helper cells? In addition to diet, Dr. Null discusses important supplements and herbs and cutting-edge therapies you may never have heard of. With twenty-five cancer-fighting recipes and testimonials from individuals who have found health through Dr. Null's methods, this book could save your life.

ozone therapy for breast cancer: Oxygen-Ozone Therapy V. Bocci, 2013-06-29 When I was about fifteen, my Biological Sciences teacher, Prof. N. Benacchio, lent me a book by Paul de Kruif *The Microbe Hunters* and I remained fascinated by infectious diseases. I was intrigued by the potency of virulent bacteria which are constantly trying to invade our bodies and often overcome

what today we call innate and adoptive immunity. Indeed, shortly after that, I was struck by his tragic death due to peritonitis. Later, while studying medicine (although medical knowledge in the 1950s was almost primordial compared with today), I soon realised how the various biological systems were wonderfully organised but at the same time frail and how our life could end in a few minutes. Slowly it became obvious that our wellness was the result of a dynamic and very unstable equilibrium between health and disease. This unstable equilibrium could be broken forever if the body's response could not reverse the pathological state. I stuck a sort of poster on the wall of my room with these three words and connecting arrows: HEALTH ~-? DISEASE -? DEATH As I don't believe in another world after death, it became obvious to me that we should make every possible effort not only to delay death, but to try always to shift the equilibrium to the left. In this book, I will try to show that this can be achieved, as a last resort, even with ozone therapy.

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tuina, underwater treadmill therapy, and herbal pharmacy procedures Role of conventional medicine in a holistic practice, ozone therapy, pulsing magnetic field therapy, and assisi loop A unique resource covering different modalities that can be used to effectively treat health problems in animal patients, Complementary Medicine for Veterinary Technicians and Nurses is an essential resource for veterinary technicians and nurses, along with veterinarians and dedicated pet owners who wish to move beyond basic consumer resources.

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regeneration of ischemic tissues. The description of these phenomena offers the first comprehensive picture for understanding how ozone works and why. When properly used as a real drug within therapeutic range, ozone therapy does not only does not procure adverse effects but yields a feeling of wellness. Half the book describes the value of ozone treatment in several diseases, particularly cutaneous infection and vascular diseases where ozone really behaves as a “wonder drug”. The book has been written for clinical researchers, physicians and ozone therapists, but also for the layman or the patient interested in this therapy.

ozone therapy for breast cancer: *Computational Intelligence for Engineering and Management Applications* Prasenjit Chatterjee, Dragan Pamucar, Morteza Yazdani, Dilbagh Panchal, 2023-04-29 This book comprises select proceedings of the 1st International Conference on Computational Intelligence for Engineering and Management Applications (CIEMA - 2022). This book emphasizes applications of computational intelligence including machine intelligence, data analytics, and optimization algorithms for solving fundamental and advanced engineering and management problems. This book serves as a valuable resource for researchers, industry professionals, academicians, and doctoral scholars in engineering, production, thermal, materials, design, computer engineering, natural sciences, and management who work on computational intelligence. The book also serves researchers who are willing to use computational intelligence algorithms in real-time applications.

ozone therapy for breast cancer: Medication-Related Osteonecrosis of the Jaws Sven Otto, 2014-11-27 Osteonecrosis of the jaws is a well-known side-effect of antiresorptive therapy that predominantly occurs in patients suffering from malignant diseases and receiving intravenous administrations of nitrogen-containing bisphosphonates or subcutaneous administrations of denosumab, a monoclonal antibody. Less frequently it may also be observed in patients with osteoporosis who are being treated with these antiresorptive drugs This textbook provides detailed, up-to-date information on all aspects of medication-related osteonecrosis of the jaws, including clinical features, pathogenesis, treatment options, and preventive measures. It also explains safe prevention and treatment strategies for patients receiving antiresorptive drugs who require extractions, implant insertions, and other dento-alveolar surgeries. This book will be of major interest for medical and dental students, dentists, and oral and maxillofacial surgeons as well as osteologists and oncologists.

ozone therapy for breast cancer: *Ecstatic Healing* Margaret De Wys, 2013-05-06 Understanding ecstatic spirit possession for physical and spiritual healing • Details the author's direct experiences working with Brazilian miracle healer John of God (João de Deus) and African high shaman Credo Mutwa • Includes stories of psychic surgery, spirit possession, and shamanic healing rituals • Explains how each of us is capable of miraculous healing Margaret De Wys first became aware of ecstatic trance healing when she was a young girl fascinated by the rapture of the Holy Rollers. However, it would be decades before she would be called to explore that early fascination. At a gathering in Upstate New York thirty years later she was spontaneously possessed by a sacred Zulu necklace--a gift from one of the most powerful shamans in Africa, Vusamazulu Credo Mutwa. Frightening yet exhilarating, the experience set her on a search to understand the depths of ecstatic healing. Margaret journeys to Brazil to work with famous healer John of God (João de Deus), where she witnesses hundreds of miraculous healings through psychic surgery. During her years of spiritual service at John's Casa, she experiences ecstatic visions, which increase her hunger for more knowledge. She begins to attend possession rituals held by Pai Lazaro, an Umbanda priest, and finds she is a natural medium to the African gods. Called through her dreams to work with Credo Mutwa, she travels to Credo's Healing Village in Africa, where she discovers her gift as an ecstatic healer and the meaning of true faith. In sharing her journey to reach a profound understanding of ecstatic states and shamanic healing, Margaret De Wys not only gives the reader a direct experience of holiness but also reveals the potential each of us has for miraculous healing.

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Multidisciplinary Approach Francesco Saverio De Ponte, 2011-11-25 During the early 19th century, it was discovered that adding yellow (now called white) phosphorous to matchstick heads made it easier to ignite matches. The phosphorous vapors were breathed in by workers and combined with other chemicals in the body to produce a potent nitrogen-containing bisphosphonate. Today's oral nitrogen-containing bisphosphonates and intravenous nitrogen-containing bisphosphonates circulate around the body the same way as the phosphorous vapors, and are absorbed into bone and ingested by osteoclasts. When this unique binding process of bisphosphonates to bone occurs, osteoclasts are poisoned, and this reduces or eliminates bone turnover. Alveolar bone in the mandible and maxilla turns over more rapidly than in long bones, so the jaws are a better target for bisphosphonate toxicity. It wasn't until 2003 that today's intravenous and oral nitrogen-containing bisphosphonate medications were implicated as major risk factors in the development of exposed necrotic bone of the jaws. Most of the researchers who reported cases of bisphosphonate-induced osteonecrosis of the jaw found that these patients were treated with zoledronate, pamidronate, or a combination of these drugs, which are commonly used for treating breast cancer or myeloma. In about 5% of cases, subjects with BIONJ were being treated for osteoporosis. Precipitating events that contribute to BIONJ are tooth extractions (about 50% of cases), mandibular exostoses, periodontal disease, and local trauma from ill-fitting dentures. It is not known if the placement of dental implants is a precipitating factor. The book aims to meet the need of medical practitioners working in all fields that use bisphosphonates, and to present the conservative and surgical treatment methods currently in use. There will also be detailed information on the literature relating to dental implants in patients treated with bisphosphonates.

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Therapeutics: Challenges and Opportunities, Volume I, 2nd edition Jiang-Jiang Qin, Wei-Dong Zhang, Huizi Jin, Sanjay K. Srivastava, 2024-01-11 This Research Topic is part of a series with: Multi-targeted Natural Products as Cancer Therapeutics: Challenges and Opportunities, Volume II Cancer remains a leading cause of disease-related deaths worldwide, despite recent advances in our understanding of cancer initiation, progression, and metastasis. Chemotherapy and radiotherapy have been used as standard non-surgical treatments of human cancer for decades, however, the survival rates of patients with cancer, especially those with advanced diseases are still very low due to the high toxicities of these treatments as well as the severe side effects. This fact has motivated researchers to discover new cancer therapeutics with minimum side effects, which intensively promotes the rapid development of single specific molecule-targeted therapies (SSMTT). Many efforts have been made in world-wide cancer drug discovery research and several single molecule-targeted therapies have been successfully developed. Unfortunately, most of the investments failed because cancer is a genetic disease and always harbors multiple alternations of molecules or genes at the genomic, genetic and epigenetic levels. The inhibition of a single molecule or signaling pathway by SSMTT frequently results in a hyperactive compensation of other cancer-related molecules and signaling pathways as well as the subsequent development of drug resistance. Therefore, identifying multi-targeted therapies, i.e. drugs that are able to target multiple cancer-related genes, proteins, or signaling pathways is a more promising way to success in developing new cancer therapeutics. Natural products, especially those from traditional Chinese medicine and folk remedies in other countries are an extraordinarily important source for new drug discovery over the past decades. Of note, many natural products have often been demonstrated to target several crucial genes or proteins in cancer-related signaling networks and exert synergistic effects. For example, Japonicone A, a dimeric sesquiterpenoid from the medicinal plant *Inula japonica*, has been found to inhibit tumor growth and metastasis by dually targeting the TNF- α /NF- κ B and p53/MDM2 signaling pathways. Traditionally, researchers have believed that the multi-targeting mechanisms of natural products have limited their use in cancer treatment due to the low specificity and potential side effects. The growing interest in developing multi-targeted cancer therapies may provide another golden opportunity to develop natural products as new cancer

therapeutics. Nevertheless, critical investigations for a comprehensive understanding of the molecular mechanisms of natural products also mean more challenges. Our long-term goals are to fully understand the molecular targets and mechanisms of action of anticancer natural products and develop them as novel cancer preventive and therapeutic agents. The specific goal of this Research Topic is to bring together the recent findings of newly identified anticancer natural products, especially those with multiple molecular targets. Papers (Original Research articles or Reviews) which discuss the in vitro and in vivo efficacy and pharmacological and toxicological properties of natural products are also welcome to be submitted. Guidelines for the conception and review of submissions As many anticancer drugs working as cytotoxic compounds have non-selective effects annihilating their potential therapeutic benefits, manuscripts are advised to provide evidence of a significant selectivity towards cancer cells (vs. healthy cells). Specifically, if the studied anticancer drug or modality does not target an oncogenic pathway, the authors should make every effort possible to prove that the cytotoxic or cytostatic effects they have identified exhibit selectivity for cancer cells (ideally 1 log difference in EC50 or IC50) vs. non-malignant cells (eg, fibroblasts or primary culture of cells). The authors should also demonstrate the applicability of their anticancer modalities on a minimum of two well-authenticated cancer cell lines (ideally originating from distinct organs/tissues). For manuscripts dealing with plant extracts or other natural substances/compounds, the composition and the stability of the study material must be described in sufficient detail. In particular, for extracts, chromatograms with characterization of the dominating compound(s) are requested. The level of purity must be proven and included. Please refer to the Four Pillars of Best Practice in Ethnopharmacology, a subset of which concerning general standards in natural product research are applied to all such studies in all sections of Frontiers in Pharmacology.

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